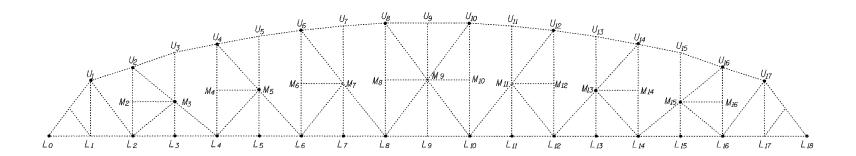
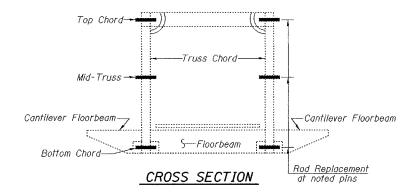
## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

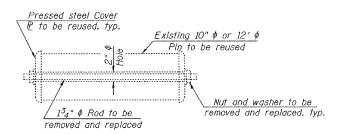


### TRUSS SPAN ELEVATION

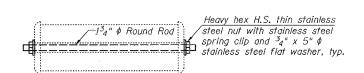
pans 27, 28 and 29 similar.

 Indicates locations where existing rod shall be removed and new rod shall be installed.





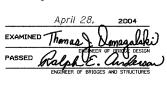
### PIN AND ROD DETAIL-EXISTING



### PIN AND ROD DETAIL-PROPOSED

6" min. thread length, each end of rod.
Use anti-seize compound on threads.
Rods shall be hot dip galvanized according to AASHTO M 232.

DESIGNED	S.E.M.
CHECKED	C.C.C.
drawn $\mathbb{R}$	. Sommer
CHECKED	S.E.M. / C.C.C.





EER & SON

EXPIRES 11-30-2004

# © Truss Diagonal Member (Eye bar components) © Truss Diagonal Member (Eye bar Components) © Truss Diagonal Member (Built up member) © Truss Bottom Chord Member (Eye bar Components) Pin Rod © Truss Bottom Chord Member (Eye Bar Components) \*\*ELEVATION

Cantilever

Floorbeam

Eye bar components of truss members

\*ELEVATION

# OF RODS TO BE REPLACED

Location		Rod	Total Number of Rods Reg'd.	**Pin (to remain in place)	
	LO, L18	1 <sup>3</sup> <sub>4</sub> " \$\phi x 4'-6"	12	12" \$\phi x 3'-9\big _2"	
Bottom Chord	L2, L16	1 <sup>3</sup> <sub>4</sub> " φ x 4'-9 <sup>l</sup> <sub>2</sub> "	12	12" \$\phi \times 4'-1"	
	L3, L4,				
	L5, L6,	1 <sup>3</sup> <sub>4</sub> " φ x 5'-0 <sup>1</sup> <sub>2</sub> "	48	12"	
	L12, L13,	14 4 % 3 02			
	L14, L15				
	L7, L11	1 <sup>3</sup> 4" \$\phi x 5'-1 <sup>1</sup> 4"	12	12" \$\psi x 4'-45_8"	
	L8, L10	1 <sup>3</sup> <sub>4</sub> " φ x 5′-1 <sup>3</sup> <sub>4</sub> "	12	12" \$ x 4'-518"	
Top Chord	U1, U17	134" \$ x 4'-1"	12	12" ф х 3′-4 <sup>3</sup> 8"	
	U2, U4, U14, U16,	1 <sup>3</sup> <sub>4</sub> " \$\phi \times 4'-0\frac{1}{2}"	24	12" Ø x 3'-4"	
	U6, U8, U10, U12,	1 <sup>3</sup> <sub>4</sub> " φ x 4'-0 <sup>l</sup> <sub>2</sub> "	24	10" \$ x 3'-4"	
Mid-	M3, M15	134" \$ x 3'-52"	12	12" Ø x 2'-9"	
Truss	M5, M13	1 <sup>3</sup> <sub>4</sub> " φ x 3′-9 <sup>1</sup> <sub>2</sub> "	12	10" \$\phi x 3'-1"	

\*\*Existing Pin to remain in place. Dimensions provided for information only.

Contract 7656

	ROUTE NO.	SECTION	COUNTY		TOTAL SHEETS	SHEET NO.	SHEET NO. 1
561	F. A. U. 9185 (IL.) F. A. U. 5488 (MQ.)	119 BR	MADISON		425	260A	1 SHEETS
	FED. ROAD DIST. NO. 7		ILLIN019	PED. AID PROJECT-			

Notes: \*Details shown are examples at one connection location only. The types of truss members meeting at a pin connection vary from location to location. Some members are comprised of several eye bar components. The number of members comprised of eye bar components that meet at a pin connection varies from zero to three. Some pin locations have a vertical gusset plate and others do not. The gusset plate shapes vary.

At the designated pin locations, the existing rods that run through the existing pins shall be removed and replaced. New nuts and washers shall be installed at each end of new rods. The existing pins and cover plates shall be reused.

During the threaded rod replacement sequence, ultrasound testing of the existing pins will be performed by the Department. See special provision for "Threaded Rod Replacement" for Contractor's responsibilities regarding this work.

The cost of removal and replacement of rods, nuts and washers and cost of temporarily clamping the existing truss members are included in the pay item Threaded Rod Replacement. New rods, nuts and washers shall be AASHTO M270 Gr. 36. See Special Provision for Threaded Rod Replacement.

As described elsewhere in these plans, the existing cantilever floorbeams are to be removed and new cantilever floorbeams are to be installed. Cost included elsewhere on plans. After removal of the existing cantilever floorbeam and before installation of the new cantilever floorbeam, the rod shall be removed and replaced. Sequence of construction for rod removal and replacement at bottom chord:

1. At pin locations where a new rod is required, the Contractor shall make a submittal to the Engineer for review and acceptance prior to removal of existing cantilever floorbeams. The submittal shall show details and sequence for temporarily clamping together the eye bar components in a member at the truss members that meet at the pin.

2. The existing cantilever floorbeam shall be removed.

Eye Bar Component typ.-

-Existing Pin (to remain in place)

3. The truss members that meet at that pin and that are comprised of eye bar components shall be clamped together prior to removal of the existing nuts for the existing rods. The rods and nuts shall be removed and replaced. The truss member clamps may be removed.

4. The new cantilever floorbeam shall be installed.

Sequence of construction for rod removal and replacement at top chord and at mid-truss:

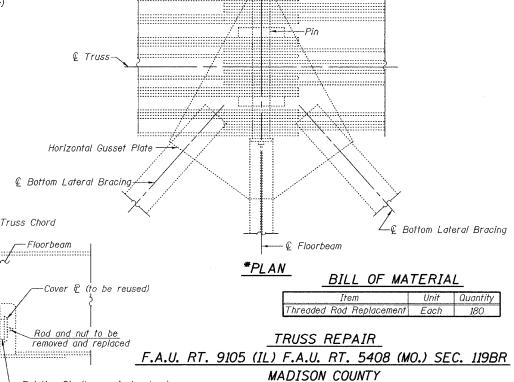
1. At the pin locations where a new rod is required, the Contractor shall make a submittal to the Engineer for review and acceptance prior to removal of the existing nuts for the existing rods. The submittal shall show details and sequence for temporarily clamping together the eye bar components in a member at the truss members that meet at the pin.

-⊈ Cantilever Floorbeam

STATION 100+00.00

STRUCTURE NO. 060-6002

2. The truss members that meet at that pin and that are comprised of eye bar components shall be clamped together prior to removal of the existing nuts for the existing rods. The rods and nuts shall be removed and replaced. The truss member clamps may be removed.



New 10-1-2004, SEM